AUTODOC CLUB

How to change front brake discs on **BMW X5 E53** – replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:
BMW X5 (E53) 4.4 i, BMW X5 (E53) 3.0 i

The steps may slightly vary depending on the car design.

REPLACEMENT: BRAKE DISCS – BMW X5 E53. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Drive socket # 16
- HEX bit no.H7.
- Torx bit T30
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Brake caliper wind back tool
- Impact screwdriver
- Tap wrench
- Rubber mallet
- Crow bar
- Wheel chock

BUY TOOLS

Replacement: brake discs – BMW X5 E53. Professionals recommend:

- Replace the brake disks on the car BMW X5 E53 in complete set for each axis. Regardless of the state of components. This will ensure even braking.
- The replacement procedure is identical for both brake disks on the same axle.
- When changing the brake discs, always replace the brake pads.
- Warning! Shut down the engine before starting any work – BMW X5 E53.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

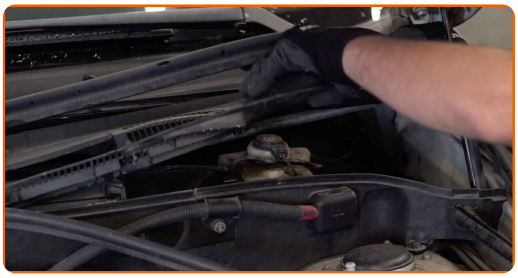
1 Open the bonnet.



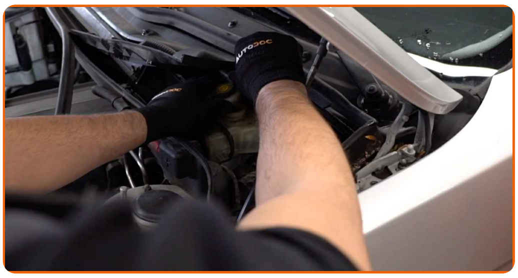
2 Remove the rubber strip.



3 Remove the protective cover.



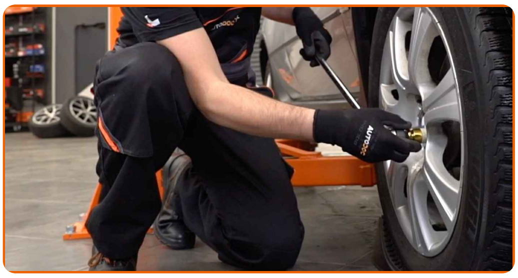
4 Unscrew the brake fluid reservoir cap.



5 Secure the wheels with chocks.



6 Loosen the wheel mounting bolts. Use wheel impact socket #19.



7 Raise the front of the car and secure on supports.



8 Unscrew the wheel bolts.



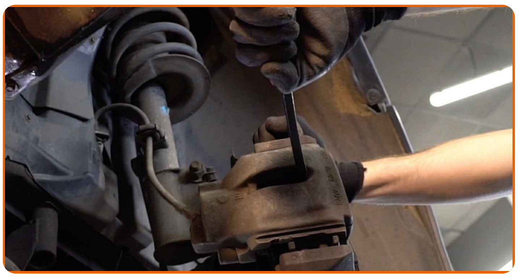
Replacement: brake discs – BMW X5 E53. AUTODOC experts recommend:

- To avoid injury, hold up the wheel when unscrewing the bolts.

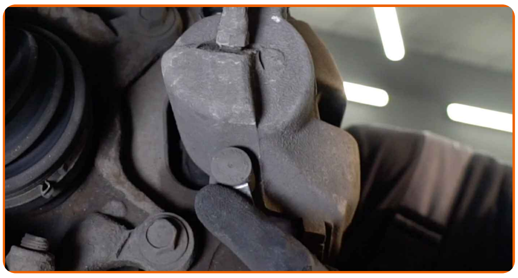
9 Remove the wheel.



10 Spread the brake pads. Use a crowbar.



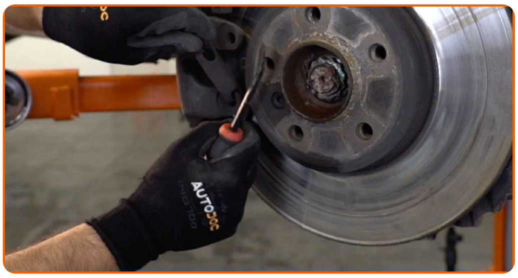
11 Remove the dust boot caps of the brake caliper guide pins. Use a crowbar.



12 Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.



13 Detach the brake caliper retaining spring. Use a crowbar.



14 Remove the brake caliper.



Replacement: brake discs – BMW X5 E53. Tip from AUTODOC:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.

15 Remove the brake pads. Use a crowbar.

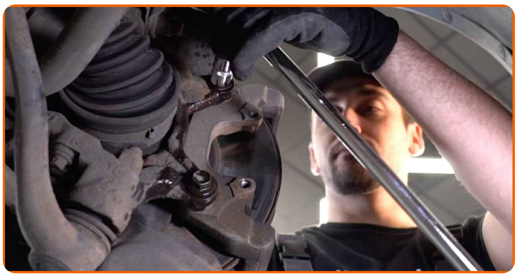


16 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



17

Unscrew the caliper bracket fastening. Use a drive socket #16. Use a tap wrench. Use a ratchet wrench.



18

Remove the caliper bracket.



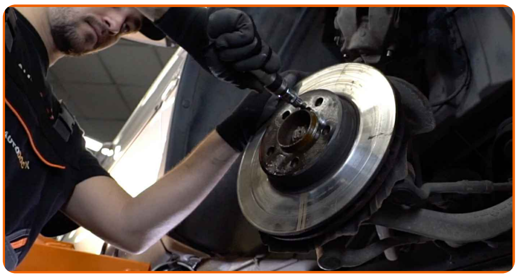
19

Clean the brake disk surface. Use a wire brush. Use WD-40 spray.



20

Unscrew the brake disc fastening. Use Torx T30. Use an impact screwdriver.



Replacement: brake discs – BMW X5 E53. Tip:

- If necessary, use a rubber mallet.

21 Remove the brake disc.



22 Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.



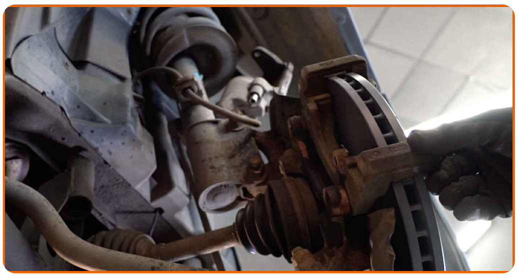
23 Install the brake disc.



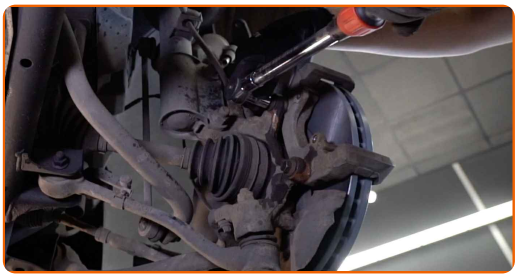
24 Tighten the brake disc fastening. Use Torx T30. Use a torque wrench. Tighten it to 16 Nm torque.



25 Install the brake caliper bracket.



26 Tighten the brake caliper bracket. Use a drive socket #16. Use a torque wrench. Tighten it to 110 Nm torque.



27 Press in the brake caliper piston. Use brake caliper wind back tool.



28 Clean the mounting seats of the caliper and its bracket. Use a wire brush. Use a brake cleaner.



AUTODOC recommends:

- Replacement: brake discs – BMW X5 E53. After applying the spray, wait a few minutes.

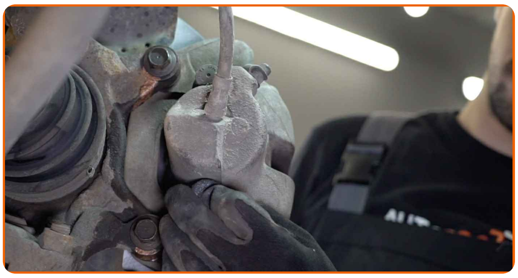
29 Install the brake pads.



30 Install the brake caliper and fix it. Use HEX No.H7. Use a torque wrench. Tighten it to 30 Nm torque.



31 Install the dust boot caps of the brake caliper guide pins.



32 Install the brake caliper retaining spring.



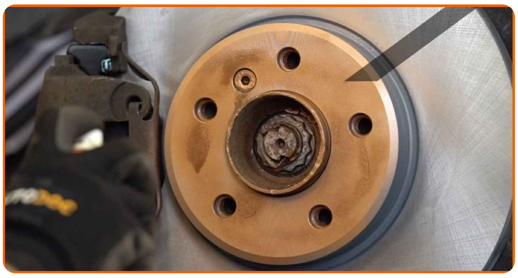
33 Clean the brake disk surface. Use a brake cleaner.



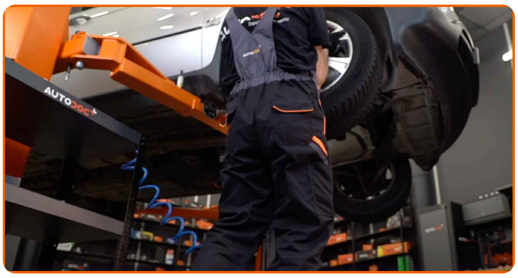
Replacement: brake discs – BMW X5 E53. Tip from AUTODOC experts:

- After applying the spray, wait a few minutes.

34 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



35 Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW X5 E53

36 Screw in the wheel bolts. Use wheel impact socket #19.



37

Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 140 Nm torque.



Replacement: brake discs – BMW X5 E53. AUTODOC recommends:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.

38

Remove the jacks and chocks.



AUTODOC recommends:

- Important! Replacement: brake discs – BMW X5 E53. Check the brake fluid level in the reservoir and top up if necessary.

39

Tighten the brake fluid reservoir cap.



40 Install the protective cover.



41 Install the rubber strip.



42 Close the hood.



WELL DONE!

VIEW MORE TUTORIALS

AUTODOC — TOP QUALITY AND AFFORDABLE CAR PARTS ONLINE

CHOOSE CAR PARTS FOR BMW X5 E53

BRAKE DISCS FOR BMW: BUY NOW

BRAKE DISCS FOR BMW X5 E53: THE BEST DEALS & OFFERS

DISCLAIMER:

The document contains only general recommendations that may be useful for you when you perform repair or replacement work. AUTODOC shall not be liable for any loss, injury, damage of property occurring in the repair or replacement process due to incorrect use or misinterpretation of the provided information.

AUTODOC shall not be liable for any possible mistakes and uncertainties in this guide. The information provided is for information purposes only and cannot replace advice from specialists.

AUTODOC shall not be liable for incorrect or hazardous usage of equipment, tools and car parts. AUTODOC strongly recommends to be careful and observe the safety rules when performing repair or replacement works. Remember: usage of low quality auto parts does not guarantee you the appropriate level of road safety.